I hereby certify that this correspondence is being transmitted via the EFS to the

U.S. Patent and Trademark Office on the date shown below.

<u>PATENT</u>

Attorney Docket No.: PX-15

Date 8-Co-7

By Angelocoling

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Yves P. Arramon

Application Serial No.: 10/723,248

Filing Date: November 25, 2003

Title: REMOTELY ACTUATED SYSTEM FOR

BONE CEMENT DELIVERY

Examiner: Cumberledge, Jerry L.

Group Art Unit: 3733

Confirmation No.: 6049

DECLARATION PURSUANT TO 37 CFR §1.131

MAIL STOP RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

I, the undersigned, hereby declare and state that:

- 1. I am over the age of 21 years, of sound mind, and competent in all respects to make this Declaration.
- I am the sole inventor of the subject matter of the above-referenced non-provisional
 patent application, entitled Remotely Actuated System for Bone Cement Delivery, filed on
 November 25, 2003, ("the Application"). Thus, the Application claims the priority date of
 November 25, 2003.
- 3. The Examiner rejected Claims 25, 26, 32 and 34 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent Application Publication No. 2005/0070915 by Michael Mazzuca et al. ("Mazzuca"), filed on September 22, 2004.

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The Examiner rejected Claims 27-31 and 33 under 35 U.S.C. § 103(a) as being unpatentable over Mazzuca alone or in combination with other cited references.

The present invention was conceived and reduced to practice prior to September 5.

26, 2003, the effective date of the cited Mazzuca Reference.

Such conception and reduction to practice is evidenced by the following attached 6.

exhibits--Exhibit A. Engineering Notebook entry of December 4, 2001, signed by myself;

Exhibit B: Engineering Notebook entry of May 20, 2002, signed by myself; Exhibit C: Invention

Disclosure Form, attached hereto, and signed by myself and two witnesses, George Delli-Santi and Michael Denker, on July 24, 2002; and Exhibit D: Engineering Notebook entry of August

30, 2002, signed by myself.

In approximately late August of 2002, a prototype device, consistent with the 7.

designs described in the attached Exhibits was successfully constructed and tested.

All statements made herein of my/own knowledge are true, all statements made herein on

information and believe are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment,

or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent

issuing thereon.

Date: 08/06/2007

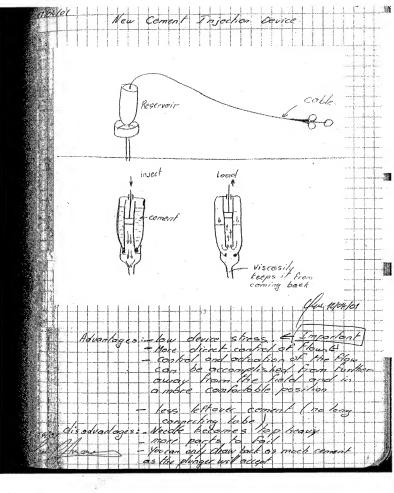
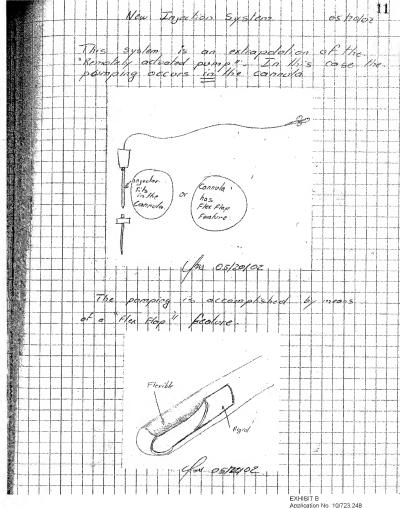


EXHIBIT A Application No 10/723,248 Engineering notebook entry of 12-4-01



Application No. 10/723,248 Engineering notebook entry of 5-20-02

PARALLAX MEDICAL, INC. (PMI)

INVENTION DISCLOSURE FORM

Title of Invention: Percutaneous Viscous Fluid Delivery Device

Proposed Contributors to Invention.

1. 2.

volume.

Contributor #1Yves	P Arramon Contribution _Concept and design	
Contributor #2	Contribution	
Contributor#3	Contribution	
ackground of the Invention. Most percutaneous injection devices used for the creutaneous delivery of viscous fluids and pastes such as bone cement are variations of "large syringe" design. The fluid is pressurized within the syringe body by means of a lunger. The pressurized fluid is conveyed to a needle by means of a tube that is often texible. For highly viscous fluids, the backpressures required to push the fluid along are musually high. When, in addition, this fluid is compressible the user of the device can erceive a time lag between the actuation of the device and the fluid delivery responses. his reduces the usefulness of the device when precise volume control is important. An iternative method, which obviates the control issue, is to use a small volume syringe irectly connected to the needle or in the extreme case to use a plunger within the needle		
itself. One of the disadva insufficient amount of fl	antages to this approach is that the device usually contains an	

or PET scanners, the user must extend their hands close to the patient and the radiation field. The approach described in this submission (Figure 1) combines the best qualities of both the large syringe with a connecting tube and the small syringe connected directly to the needle. By bringing the pressurization close to the delivery site with a small pumping volume the working pressures are lowered and the responsiveness of the device is improved. By providing a remote actuation (as is the case with large syringe and connecting tube) the users is in a safer more comfortable position out of the field of radiation and closer to the user body. By providing a continuously reloadable pumping mechanism the amount of fluid available to inject is not limited to the small pumping

5. Detailed Description of the Invention. The device consists of a remotely actuate pump. In this case the pump is a small volume syringe, the actuating element is flexible control cable (figure 2). The actuation is manual and controlled by the physician. e 2). By sliding the tubes and elastic elements with respect to each other, the device will bend in a controlled manner

and at predetermined locations along the device. The catheter tube may be constructed with different features so as to provide a multitude of functionalities (figure 3).

6. Relevant Dates

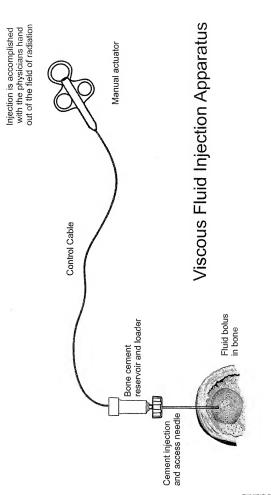
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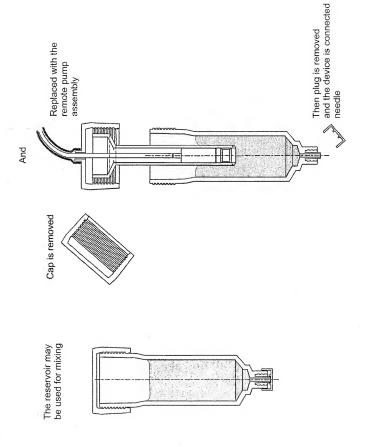
a. First date on which Invention was Conceived and/or demonstrated/tested.

Related Government or Other Contract Information.

- (a) First conceived 12/04/01 (Lab notebook entry Arramon2 page 9) Parallax Medical (Scotts Valley, CA).
- b. First date of disclosure of Invention within PMI. First disclosed on 12/14/01, Parallax Medical Inc. (Scotts Valley, CA) during a brainstorm meeting for a new Cement Delivery System.

	None.		
8.	Contributors	· la	
(1)	Yves P Arramon (Name)	(Signature)	<u>07/24/0 Z</u> . (Date)
(2)	(ranc)	(Signature)	(Date)
(~) _	(Name)	(Signature)	(Date)
(3)	·····		
	(Name)	(Signature)	(Date)
9.		he significant details of the invention and r ioning of the invention for its intended pur	
	Witness Statement: / have read and understand t	this Invention Disclosure.	
(1)	GEORGE DELLI-SANTI (Name)	Signature)	7-24-02 (Date)
(2)	MICHAEL DENKER (Name)	Muchaf Wat (Signature)	7/24/02 (Date)





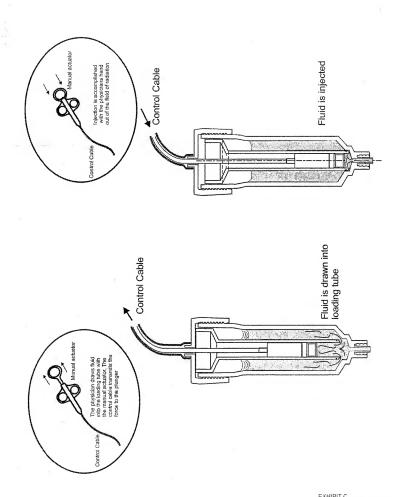


EXHIBIT C Application No. 10/723,248 Invention Disclosure Form

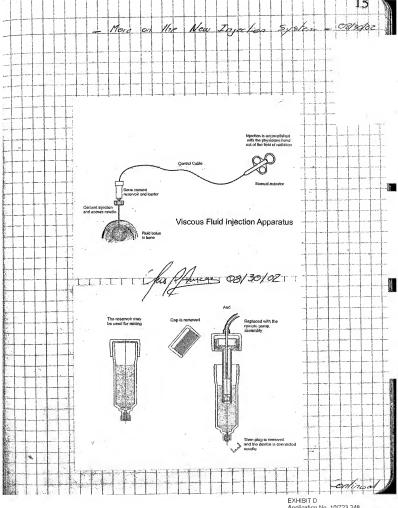
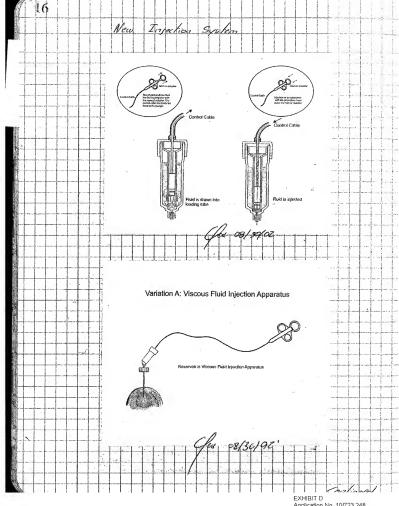
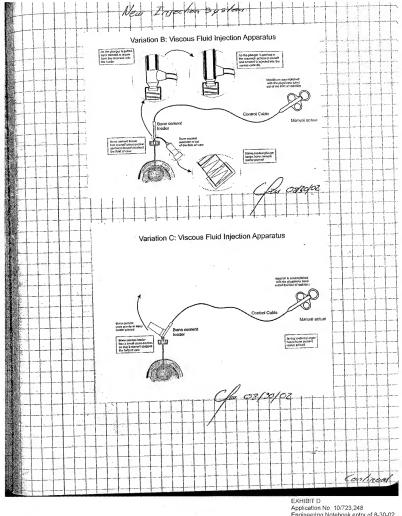


EXHIBIT D Application No. 10/723,248 Engineering Notebook entry of 8-30-02



Application No. 10/723,248 Engineering Notebook entry of 8-30-02



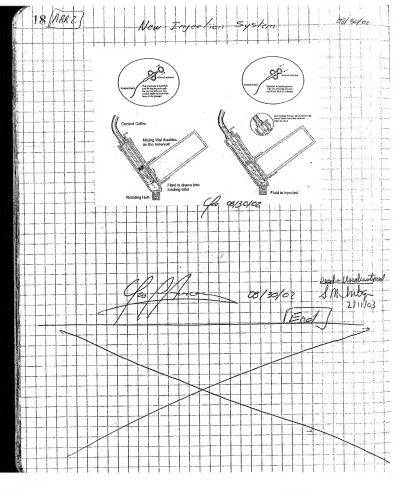


EXHIBIT D Application No. 10/723,248 Engineering Notebook entry of 8-30-02